

IN THE CLAIMS

The following claims listing replaces all prior claims listings:

What is claimed is:

1. (Currently Amended) A sensor device for measuring changes in nature of a detecting portion upon coupling with a target, characterized in extracting plural pieces of information including information about the ~~presence/absence, distribution, and so on,~~ presence, absence, or distribution of the target ~~by using spatial structure of the detecting portion~~ via coupling of the target with the detecting portion.
2. (Currently Amended) The sensor device according to claim 1 wherein the spatial structure is a geometrical structure of the detecting portion.
3. (Currently Amended) The sensor device according to claim 1 wherein the detecting portion includes a plurality of binding sites.
4. (Currently Amended) The sensor device according to claim 1 wherein the detecting portion includes a plurality of binding sites permitting a plurality of targets to selectively couple therewith.
5. (Currently Amended) The sensor device according to claim 4 wherein the binding sites couple with the targets ~~are located in alignment with sizes of the targets~~ to detect changes in amount of the targets with time.
6. (Original) The sensor device according to claim 1 wherein said information is extracted by measuring changes in physical nature or structure of the detecting portion upon coupling with the targets.

7. (Original) The sensor device according to claim 1 wherein said information is extracted by measuring changes in dielectric constant of the detecting portion upon coupling with the targets.

8. (Original) The sensor device according to claim 1 wherein said information is extracted by measuring changes in dielectric constant of the detecting portion upon coupling with the targets according to the principle of surface plasmon resonance.

9. (Original) The sensor device according to claim 1 wherein said information is extracted by measuring changes in weight of the detecting portion upon coupling with the targets.

10. (Original) The sensor device according to claim 1 wherein said information is extracted by measuring changes in weight of the detecting portion upon coupling with the targets by using an oscillating circuit and a frequency measuring device.

11. (Currently Amended) The sensor device according to claim 3 wherein the ~~targets and the binding sites have the relation of combination of~~ targets are antigens and binding sites are antibodies, and the antigens and the antibodies couple by antigen/antibody reaction.

12. (Currently Amended) A sensing method for measuring changes in nature of a detecting portion upon coupling with a target, comprising: extracting ~~a plural pieces of~~ information including information about the ~~presence/absence, distribution, and so on,~~ presence, absence, or distribution of the target via coupling of the target with the detecting portion ~~from a spatial structure of the detecting portion.~~

13. (Currently Amended) A biological substance sensor device for measuring changes in nature of a detecting portion upon coupling a biological substance, characterized in simultaneously extracting plural pieces of information including information about the ~~presence/absence, distribution, and so on,~~ presence, absence, or distribution of the biological substance ~~from a spatial structure of the detecting portion.~~ via coupling of the substance with the detecting portion.

14. (Currently Amended) A biological substance sensing method for measuring changes in nature

of a detecting portion upon coupling a biological substance, comprising: simultaneously extracting plural pieces of information including information about the ~~presence/absence, distribution, and so on,~~ presence, absence, or distribution of the biological substance ~~from a spatial structure of the detecting portion.~~ via coupling of the substance with the detecting portion.

15. (Currently Amended) A secretion sensor device for measuring changes in nature of a detecting portion upon coupling with a secretion product, characterized in simultaneously extracting plural pieces of information including information about the ~~presence/absence, distribution, and so on,~~ presence, absence, or distribution of the secretion product ~~from a spatial structure of the detecting portion.~~ via coupling of the product with the detecting portion.

16. (Currently Amended) A secretion sensing method for measuring changes in nature of a detecting portion upon coupling with a secretion product, comprising: simultaneously extracting plural pieces of information including information about the ~~presence/absence, distribution, and so on,~~ presence, absence, or distribution of the secretion product ~~from a spatial structure of the detecting portion.~~ via coupling of the product with the detecting portion.

17. (Currently Amended) An emotion sensor device for detecting changes in emotion through measurement of changes in nature of a detecting portion upon coupling with a secretion product secreted from a living body along with changes of the emotion, characterized in simultaneously extracting plural pieces of information including information about the ~~presence/absence, distribution, and so on,~~ presence, absence, or distribution of the secretion product ~~from a spatial structure of the detecting portion.~~ via coupling of the product with the detecting portion.

18. (Currently Amended) An emotion sensing method for detecting changes in emotion through measurement of changes in nature of a detecting portion upon coupling with a secretion product secreted from a living body along with changes of the emotion, comprising: simultaneously extracting plural pieces of information including information about ~~presence/absence, distribution, and so on,~~ presence, absence, or distribution of the secretion product ~~from a spatial structure of the detecting portion.~~ via coupling of the product with the detecting portion